### 2008

# MQ325A — INORGANIC CHEMICALS (SHIPMENTS AND PRODUCTION)

#### **DEFINITIONS AND SPECIAL INSTRUCTIONS**

#### 1. Scope of survey

This survey covers all manufacturers of selected inorganic chemicals in the United States.

#### 2. Figures to be reported

Companies with more than one establishment manufacturing the products covered by this survey are requested to complete a separate form for each location. If you have not received a separate report form for each of your establishments, please call the contact shown on the report form or write to the U.S. Census Bureau for additional forms.

#### a. Production

Report total quantity produced of each specified chemical product, whether sold, transferred, added to inventory, or used in further processing. Unless otherwise instructed, when two or more physical forms of a specific chemical are listed, report production for each form, including quantities which are subsequently used in producing other physical modifications of the chemical. Include products made elsewhere for this establishment on a contract basis from materials supplied by you. Exclude products made for you by others from their materials.

#### b. Quantity and value of shipments

The figures on quantity and value of shipments should include the physical shipments of all products sold, transferred to other establishments within your company, or shipped on consignment, whether for domestic or export sale. The value represents the net sales price, f.o.b. plant, to the customer or branch to which the products are shipped, net of discounts, allowances, freight charges, and returns. Shipments to your own branches should be assigned the same value as comparable sales to unaffiliated customers, i.e., the value includes an appropriate allocation of company overhead and profit. Products bought and resold without further manufacture or packaging should not be included in shipments.

#### c. Units of measure

If possible, please report in terms of the basis and unit of measure requested. If this is not possible, be sure to indicate precisely the basis and unit of measure which actually apply to the reported figures. If neither basis nor unit of measure is indicated on the form, report value of shipments only. (See footnote (1) on Reference List.)

### d. Columnar structure of the report

When posting your figures to the original report, please be sure to report the information in the correct columns:

Column 1 — Production

Column 2 - Quantity of shipments

Column 3 - Value of shipments

#### 3. Definitions

The product detail for this survey, as shown in the Reference List, is defined according to standard nomenclature for this industry.

### MQ325A

### 4. Comparability

If you also report in the Annual Survey of Manufactures (Form MA-10000), the sum of values for item codes shown in column (a) should correspond to the dollar values reported under product class codes indicated in column (b) below:

Current Industrial Reports (CIR) (Form MQ325A)	Annual Survey of Manufactures
Item codes (a)	Product class codes (b)
2111, 2115	3251811
2421, 2430	3251817
3445, 3447, 3451	3251884
3511	3313110
3617 through 3673	3251887
3703 through 3784	325188A
3245, 3913-3946, 4006-4120	325188H
6111	3251311

### REFERENCE LIST

### FORM MQ325A

#### INORGANIC CHEMICALS (SHIPMENTS AND PRODUCTION)

This reference list has been arranged to help you identify and list products on report Form MQ325A, Shipments and Production of Inorganic Chemicals. To assist you in locating specific products, the list has been arranged by major product groupings. Within product groupings, products are generally arranged alphabetically according to the metallic (basis) element. When a compound contains two metallic elements, it should be reported according to the metal-giving properties for which the compound is generally used, such as aluminates under aluminum compounds.

I	Report all	quantities on Short Ton Basis (2,000 lbs.), unless otherwise instructed
Product code	ltem code	Item description
		GASES, COMPRESSED AND LIQUEFIED
		ALKALIES AND CHLORINE
3251811111 3251811121	2111 2115	Chlorine  Gas (including quantities later liquefied) (Basis — 100% CI)  Liquid (also report as gas production) (Basis — 100% CI)
3251814111	2352	Sodium hydroxide (caustic soda) (all processes)  Total liquid (Report total production including that converted to and reported as dry) (Basis — 100% NaOH)
3251817111 3251817131	2421 2430	Other alkalies Potassium hydroxide (caustic potash) Liquid (include in production quantities of liquid that are later converted to dry or solid) (Basis — 88-92% KOH) Finished sodium bicarbonate (Basis — 100% NaHCO <sub>3</sub> )
		INDUSTRIAL INORGANIC CHEMICALS, N.E.C.
		Chlorine bleaches and other inorganic bleaching compounds (produced for sale) (Note: for inorganic bleaches not containing chlorine, report quantity based on equivalent oxidizing value such as active oxygen content.)
325188H1P4	3245	Industrial bleaches, liquid (7 percent or more available chlorine or equivalent oxidizing value) and dry (50 percent or more available chlorine or equivalent oxidizing value) (Basis - 100% CI equiv.)
3251881100		Sulfuric acid (Report on MQ325B)
3251884125 3251884131 3251884141	3445 3447 3451	Inorganic acids, except nitric and sulfuric Hydrochloric (including anhydrous) From chlorine and hydrogen (Basis — 100% HCI) Byproduct and other (including from salt and acid) (Basis — 100% HCI) Hydrocyanic (including anhydrous) (Basis — 100% HCN)

### REFERENCE LIST — Continued

	Report a	Il quantities on Short Ton Basis (2,000 lbs.), unless otherwise instructed
	Т	a quantities on enert fon Busis (2,000 ibs.), unless strictwise instructed
Product	Item	
code	code	Item description
		INDUSTRIAL INORGANIC CHEMICALS, N.E.C. — Continued
3313110100	3511	Aluminum oxide, except natural alumina (Basis $-$ 100% $Al_2O_3$ )
		Other aluminum compounds
3251887121	3617	Chloride, anhydrous (Basis 100% AICl <sub>3</sub> )
3251887131	3625	Hydroxide, trihydrate (Basis — 100% Al <sub>2</sub> O <sub>3</sub> 3H <sub>2</sub> O)
2251007151	2651	Sulfate  Commercial (Bosic 179) ALC
3251887151 3251887161	3651 3655	Commercial (Basis — 17% Al <sub>2</sub> O <sub>3</sub> ) Iron-free (Basis — 17% Al <sub>2</sub> O <sub>3</sub> )
3251887161	3673	Aluminates (sodium aluminate, potassium aluminate, etc.) (Basis $-$ 100% by
3231007171	3073	weight)
		Potassium and sodium compounds (except bleaches, alkalies, and alums) Potassium
		compounds, n.e.c.
325188A111	3703	lodide (Basis – 100% KI)
325188A117	3708	Tetrapotassium pyrophosphate (Basis — 100% K <sub>4</sub> P <sub>2</sub> O <sub>7</sub> )
325188A124	3712	Potassium phosphates (Basis — 100% by weight)
323100A124	3712	Sodium compounds n.e.c.
325188A141	3723	Chlorate (Basis — 100% NaCIO <sub>3</sub> )
325188A147	3729	Hydrosulfide (sodium sulfhydrate) (Basis — 100% NaSH)
325188A151	3730	
323100A131	3/30	Hydrosulfite Phosphate
325188A157	3733	Dibasic (produced for sale) (Basis — 100% Na <sub>2</sub> HPO <sub>4</sub> )
325188A164	3735	Tetrabasic (pyro) (Basis $-100\%$ Na <sub>4</sub> P <sub>2</sub> O <sub>7</sub> )
325188A167	3736	Meta (Basis — 100% NaPO <sub>3</sub> )
325188A171	3737	Acid Pyro (Basis – 100% $Na_2H_2P_2O_7$ )
325188A174	3738	Tripoly (Basis – 100% $Na_{5}P_{3}O_{10}$ )
325188A177	3739	Other sodium phosphates (including mono- and tribasic)
323100A177	3733	Silicates
325188A181	3741	Soluble silicate glass (water glass, solid and liquid) (Basis-Anhydrous)
325188A184	3741	Metasilicate pentahydrate (Basis — 100% Na <sub>4</sub> SiO <sub>3</sub> 5H <sub>2</sub> O)
325188A187	3744	Metasilicate anhydrous (Basis – 100% Na <sub>2</sub> SiO <sub>3</sub> )
020100A107	5, 44	Sulfate
325188A1A1	3761	High purity (more than 99% Na <sub>2</sub> SO <sub>4</sub> ) (Basis — 100% Na <sub>2</sub> SO <sub>4</sub> )
325188A1A7	3784	Sulfite (Basis $-$ 100% Na <sub>2</sub> SO <sub>3</sub> )
		Other inorganic chemicals, n.e.c.
325188H141	2012	Carbonate (procipitated) (Regio 100% CaCO)
	3913	Carbonate (precipitated) (Basis — 100% CaCO <sub>3</sub> )
325188H144	3922	Chloride (Basis — 100% CaCl <sub>2</sub> )
2251001147	20/1	Phosphate  Manabasis (21% minimum B) (Rasis 100% Call (RO ) )
325188H147	3941	Monobasic (21% minimum P) (Basis $-$ 100% CaH <sub>4</sub> (PO <sub>4</sub> ) <sub>2</sub> )
325188H151	3946	Dibasic (except fertilizer grades) (18.5% minimum P) (Basis — 100% CaHPC
3253124241	3967	Tribasic (18.0% minimum P)  Animal feed grades (defluorinated phosphate rock) (Basis — 100%
3/33//4/4/	1 330/	Animai teed drades identiformated bhosbhate fock) (Basis — 100%

### REFERENCE LIST — Continued

	Report a	III quantities on Short Ton Basis (2,000 lbs.), unless otherwise instructed
Product	Item	
code	code	Item description
		INDUSTRIAL INORGANIC CHEMICALS, N.E.C. — Continued
		INDUSTRIAL INORGANIC CITEMICALS, N.L.C. — Continued
325998H1E4	3989	Carbon activated (exclude reactivated) Granular carbons (Basis — 100% Dry weight)
325998H1E7	3990	Pulverized carbons (Basis — 100% Dry weight)
325188H181	4006	Hydrogen peroxide (Basis — 100% by weight)
325188H184	4008	lodine (Specify crude or resublimed) (Report in pounds) (Basis — 100% I)
325188H187	4010	Iron compounds Ferric chloride (Basis — 100% FeCl <sub>2</sub> )
325188H191	4011	Iron oxides and hydroxides (excluding iron oxide pigments) (Basis — 100% by weight)
325188H1A1	4036	Magnesium chloride (Basis — 100% MgCl <sub>2</sub> )
325188H1B1	4041	Manganese dioxide (Basis — 100% MnO <sub>2</sub> )
		Phosphorus compounds
325188H1F1	4061	Oxychloride (Basis — 100% POCI <sub>3</sub> )
325188H1F7	4063	Trichloride (chloride) (Basis — 100% PCI <sub>3</sub> )
325188H1G7	4101	Silicon tetrachloride (Basis — 100% SiCl <sub>4</sub> )
325188H1K1 325188H1M1	4110 4120	Sulfur dioxide (produced for sale) (Basis $-100\% SO_2$ ) Zinc sulfate (Basis $-100\% ZnSO_4H_2O$ )
3231001111111	4120	Zinc sunate (Basis — 100 / 21130 411 20)
		INORGANIC COLOR PIGMENTS
3251311100	6111	Titanium dioxide (composite and pure) (Basis — Commodity weight)
	1	

2/4/08

DUEDATE: 15 Days After Receipt

OMB No. 0607-0395: Approval expires 08-31-10

REPORT FOR 2nd QUARTER 2008

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U.S. DEPARTMENT OF COMMERCE BUREAU OF THE CENSUS FORM MO325A

### **CURRENT INDUSTRIAL REPORTS**

Quarterly Report on Shipments and Production of Inorganic Chemicals

If you have questions regarding this report form please contact:

JOANNA NGUYEN EXT 3 1(800)201-4647

EMPLOYER IDENTIFICATION (EI) NUMBER. Identification number used on Employer's Quarterly Federal Tax Return (U.S. Treasury Department Form 941) (Enter if not shown, correct if wrong.)

CONTACT PERSON (Enter information if not shown, correct if wrong.) Name PERSON IN CHARGE

Area code 999 Number 999-9999

Fax number {999} 888-7777

The 8-digit number that appears above indicates that the Office of Management and Budget has approved this survey. If that number is not displayed, do not complete this form. YOUR REPORT IS CONFIDENTIAL BY LAW {Section 9 Title 13, United States Code}. It is seen only by sworn Census Bureau employees and used only for statistical purposes. The law provides that copies retained in your files are immune from legal process. Although you are not required to respond, your cooperation is needed to make the results of this survey comprehensive, accurate, and timely.

In correspondence pertaining to this establishment's report, please refer to the 11 digit Identification Number (ID) 01234567880



ID 01234567880 40 20

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MQ325A

SEQ: 1

ATTN: PERSON IN CHARGE TEST FORM

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DC 99999

(Please correct any error in name and address including ZIP Code)

Enter or correct email address:[

PART I FOR EACH ITEM LISTED BELOW, ENTER FIGURES OR "0" for current period. (The figures shown in the shaded areas were reported for the previous two periods.) PLEASE REFER TO THE INSTRUCTIONS BEFORE COMPLETING THIS REPORT FORM.

ltem (Product code – Description)	ltem code		Produced for all purposes	Total Shi	pments nsfers			
		,	Qty	Qty \	alue-F0B {\$1000}			
3251811111-Chlorine gas {incl. quant.later lique-	2111	2 QTR	1	2	3	4	5	6
fied}-100% basis-short tons		1 QTR		April 1997			A	
·		4 QTR						
3251811121-Chlorine liquid {also report as gas produc-	2115	2 QTR			prints considerated and the second a			
tion} 100% basis-short tons		1 QTR						
		4 QTR		00000		NA CONTRACTOR OF THE CONTRACTO		
3251814111-Sodium hydroxide {caustic soda} all processes	2352	2 QTR		Sen and Aller an	And the second s			
total liquid, 100% basis - short tons		1 QTR				6-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1		
		4 QTR						
3251817111-Potassium hydrox- ide, total liquid {including	2421	2 QTR	. *	10000000000000000000000000000000000000		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		
quan.converted to dry or solid}-88-92% basis-sh.tons		1 QTR		and the second s		40.00		
		4 QTR		tion and the second sec	***************************************	***************************************	***************************************	

Figures not received when form was prepared. PLEASE ENTER, if not previously submitted.

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### CURRENT INDUSTRIAL REPORTS - Continued

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PART I - Continued						1			
ltem (Product code – Description)	ltem code	Report period	Produced for all purposes	Total incl.	Sh	pments nsfers			
			Qty	Qty	١	(alue-F0B {\$1000}			
3251817131-Finished sodium bicarbonate-100% basis -	2430	2 QTR	<b>1</b>	2		3	4	5	6
short tons		1 QTR							
		4 QTR						·	
325188H1P4-Industrial bleaches, liquid and dry	3245	2 QTR		) (Illustration of the control of th		nonenenenenenen en en en en en en en en en			
<pre>{see reference list} {Basis - 100% Cl equiv.}</pre>		1 QTR							
		4 QTR				·			
3251884125-Hydrochloric acid, from chlorine-100% basis-	3445	2 QTR			-		*		300
short tons		1 QTR							
		4 QTR							
3251884131-Hydrochloric acid, byproduct and other -	3447	2 QTR							-
100% basis short tons		1 QTR							000000000000000000000000000000000000000
		4 QTR							
3251884141-Hydrocyanic acid {including anhydrous}-100% basis-short tons	3451	2 QTR		000000000000000000000000000000000000000		anno de la companio del companio de la companio de la companio del companio de la companio della companio della companio de la companio della			
pasis-snort tons		1 QTR				do circumstanting to the circumstanting to t			***************************************
		4 QTR							
3313110100-Aluminum oxide, except natural alumina - 100% basis - short tons	3511	2 QTR		unquano.		scool			reconstruction control
100% bg212 - 21101 r roll2		1 QTR							
		4 QTR							
3251887121-Aluminum chloride, anhydrous - 100%	3617	2 QTR		essential de la constantial de			oos oo ah		da de la composição de la
basis - short tons		1 QTR							
		4 QTR							
3251887131-Aluminum hydroxide, trihydrate -	3625	2 QTR					***************************************		
100% basis - short tons		1 QTR							
		4 QTR							
3251887151-Aluminum sulfate, commercial-17% aluminum	3651	2 QTR				A004/2012/01/2012			-
oxide - 100% basis - short tons		1 QTR							
		4 QTR							
3251887161-Aluminum sulfate, iron-free-17% aluminum	3655	2 QTR		***************************************				and the second s	
oxide -100% basis - short tons	1	1 QTR				92.A.A.O.O.O.O.O.O.O.O.O.O.O.O.O.O.O.O.O.			A CALLANDA
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**CURRENT INDUSTRIAL REPORTS – Continued** 

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Item (Product code – Description)	Item code	Report period	Produced for all purposes	Total	Sh	ipments ansfers	- And an analysis and a second		occommon management and the second se
			Qty	Qty	1	value-F0B {\$1000}			identificant and international
3251887171-Aluminates {sodium aluminate, potassium	3673	2 QTR	1	2		3	4	5	6
aluminate,etc.}-100% by	3073	1 QTR							
weight, short tons		4 QTR					-		
325188A111-Potassium iodide - 100% basis-short tons	3703	2 QTR					and the second s		os de la companya de
		1 QTR							
		4 QTR				and an artist and a state of the state of th	was Government or a second or		TO A SAN AND AND AND AND AND AND AND AND AND A
325188A117-Tetrapotassium pyrophosphate {potassium	3708	2 QTR							
pyrophosphate} - 100% basis- short tons		1 QTR							
		4 QTR					***************************************	~~~	00.000
325188A124-Potassium phos- phates - 100% by weight- short tons	3712	2 QTR					VICTORIA PROPERTY AND A STATE OF THE STATE O		
SHOTE COILS		1 QTR							
		4 QTR					-		
325188A141-Sodium chlorate - 100% basis-short tons	3723	2 QTR				***************************************	·		000000000000000000000000000000000000000
		1 QTR							
		4 QTR							
325188A147-Sodium hydrosulfide {sodium sulfhydrate} - 100% basis -	3729	2 QTR							S
short tons		1 QTR	-						
2051004151 Cadium huduarul		4 QTR	·				2000	sa de la companya de	
325188A151-Sodium hydrosul- fite- 100% basis - short	3730	2 QTR					***************************************		
tons		1 QTR							
		4 QTR							
325188A157-Sodium phosphate, dibasic - 100% basis - short tons	3733	2 QTR		-		***************************************	***************************************		
SHOPL LONS		1 QTR							
		4 QTR							
325188A164-Sodium phosphate, tetrabasic{pyro}-100% basis-short tons	3735	2 QTR		2000				***************************************	
2013 3001 6 6003		1 QTR					**************************************	**************************************	in the second se
		4 QTR						33.00	
325188A167-Sodium phosphate, meta-100% basis-short tons	3736	2 QTR		· · · · · · · · · · · · · · · · · · ·			1000	Television of the Control of the Con	
		1 QTR						***************************************	
		4 QTR					residence		

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			Qty	Qty	1	/alue-F0B {\$1000}			***************************************
325188A171-Sodium phosphate, acid pyro - 100% basis -	3737	2 QTR	1	2		3	4	5	6
short tons	0,0,	1 QTR							
		4 QTR				SCAPA CANADA	***************************************	4600)Annahalipakasan	
325188A174-Sodium phosphate, tripoly - 100% basis -	3738	2 QTR				utanista esta esta esta esta esta esta esta e	and the second s	inchinologica de la companya della companya della companya de la companya della c	-
short tons	3730	1 QTR							
		4 QTR					udda. Gerdenia	0.000	1,000,000,000 (MARINE)
325188A177-Other sodium phos- phates {incl. mono- and	3739	2 QTR	XXXXX	XXXX			-	***************************************	***************************************
tribasic} Report shipments	3/39	1 QTR	XXXXX	XXXX					
value only		4 QTR	XXXXX	XXXX	· · ·				
325188A181-Soluble silicate glass{water glass},solid and liquid-anhydrous-short tons	3741	2 QTR		***************************************					
	3/41	1 QTR							***************************************
		4 QTR				VO CONTRACTOR OF THE CONTRACTO			
25188A184-Sodium meta-	2740	0 OTD				National Contraction of the Cont			
silicate pentahydrate - 100% basis - short tons	3742	2 QTR 1 QTR	· · · · · · · · · · · · · · · · · · ·			Si Andrea			
		4 QTR							
325188A187-Sodium meta-	3744	2 QTR				A procession of the second	***************************************		000000000000000000000000000000000000000
silicate anhydrous - 100% basis - short tons	3/44	1 QTR				Local Control			
		4 QTR					***************************************		
325188A1A1-Sodium sulfate,	3761	2 QTR						***************************************	
high purity {more than 99% sodium sulfate} - 100%	3/01	1 QTR					***************************************	To the second se	
basis - short tons		4 QTR							
325188A1A7-Sodium sulfite -	3784	2 QTR		-	i				e
100% basis - short tons	3/04	1 QTR						***************************************	donate de la constante de la c
		4 QTR							
325188H141-Calcium carbonate	2010			THE CONTRACT OF THE CONTRACT O			-	200000000000000000000000000000000000000	
{precipitated}-100% basis- short tons	3913	2 QTR 1 QTR		inguando Constantina de Constantina			-		
		4 QTR							0000
325188H144-Calcium chloride,	10000							and the second	**************************************
solid, flake, and liquid, 100% basis - short tons	3922	2 QTR						· · · · · · · · · · · · · · · · · · ·	***************************************
		4 QTF				300			STATE OF THE STATE
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			Oty	Qty	٧	alue-F0B {\$1000}	4	***************************************	
$325188 H 147 - \text{Calcium phosphate,} \\ \text{monobasic } \{21\% \text{ min.p}\} - 100\%$	3941	2 QTR	1	2		3	· 4	5	6
basis - short tons		1 QTR		ID-JOHN STATE OF THE STATE OF T			***************************************		
		4 QTR		velor-deli lodoli di			bassassassassassassassassassassassassass	***************************************	***************************************
325188H151-Calcium phosphate, dibasic {except fertilizer	3946	2 QTR							-
grades} {18.5% min.P}- 100% basis - short tons		1 QTR		and the state of t			70000000000000000000000000000000000000	3	
		4 QTR		sakul I Neorico			Addition to the state of the st		
3253124241-Calcium phosphate, tribasic-animal feed grades	3967	2 QTR		olekoverka kirjansa varia			·	Scientification	constitution of the consti
{defluor.phos.rock} {18% min. P} 100% basis - sh tons		1 QTR		51.00			and the second s	3	
		4 QTR		***************************************			0.000	***************************************	***************************************
325998H1E4-Activated granular carbons {excl. reactivated}-	3989	2 QTR						rionarional de la companya de la com	
dry weight - short tons		1 QTR							
		4 QTR		STATE OF THE STATE			***************************************	MANAGEM AND	
325998H1E7-Activated pulverized carbons {exclude	3990	2 QTR		on the state of th			THE STATE OF THE S		0.000
reactivated} dry weight - short tons		1 QTR		**************************************			TO CONTRACTOR OF THE PROPERTY	ng-nady/dationation	***************************************
		4 QTR							
325188H181-Hydrogen peroxide- 100% by weight - short tons	4006	2 QTR							VA. AGENTA DE LA CONTRA DEL CONTRA DE LA CONTRA DEL CONTRA DE LA CONTRA DELA CONTRA DE LA CONTRA DE LA CONTRA DE LA CONTRA DE LA CONTRA DELA CONTRA DE LA CONTRA DE LA CONTRA DELA CONTRA DELA CONTRA DE LA CONTRA DELA CONTRA DE LA CONTRA DELA CONTRA DE LA CONTRA DE L
		1 QTR							
		4 QTR		***************************************				500000000000000000000000000000000000000	
325188H184-Iodine {specify crude or resublimed} - 100%	4008	2 QTR					***************************************	·	
basis - report in pounds		1 QTR		***************************************			,		
		4 QTR		NAME OF THE PROPERTY OF THE PR			000		***************************************
325188H187-Ferric chloride - 100% basis - short tons	4010	2 QTR		The state of the s			33/1///		5
		1 QTR		and the section of th			rannol ra		
		4 QTR							
325188H191-Iron oxides and hydroxides {exclude iron oxide pigments} - 100% by	4011	2 QTR		V		-	Translation and the state of th		·
weight - short tons		1 QTR		**************************************			***************************************	***************************************	
		4 QTR						**************************************	
325188H1A1-Magnesium chloride compounds - 100% basis - short tons	4036	2 QTR						AV400200133333334	
31101 € €0113		1 QTR		***************************************			200		
·		4 QTR	-	-			The state of the s		

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CURRENT INDUSTRI	AL RE	PORTS	– Continue	ed		012	234567880		6
PART I – Continued									
Item (Product code – Description)	ltem code	Report period	Produced for all purposes	Total sincl.	Shi tra	pments insfers	Land and Control of the Control of t		
			Qty	Qty	\	alue-F0B {\$1000}			
325188H1B1-Manganese dioxide compounds - 100% basis - short tons	4041	2 QTR 1 QTR	1	2		3	4	5	6
		4 QTR							
325188H1F1-Phosphorus oxychloride 100% basis - short tons	4061	2 QTR 1 QTR 4 QTR							
325188H1F7-Phosphorus trichloride {chloride} - 100% basis - short tons	4063	2 QTR 1 QTR 4 QTR							
325188H1G7-Silicon tetrachloride – 100 basis – short tons	4101	2 QTR 1 QTR 4 QTR							
325188H1K1-Sulfur dioxide {produced for sale} - 100% basis - short tons	4110	2 QTR 1 QTR 4 QTR							
325188H1M1-Zinc sulfate-100% basis - short tons	4120	2 QTR 1 QTR 4 QTR					7		
3251311100-Titanium dioxide {composite and pure} - commodity weight - short tons	6111	2 QTR 1 QTR 4 QTR							
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PART I - Continued											
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If all your items are n	ot listed, pleas	e use a	dditional	lines or a	blank sheet d	of paper.					
	been any char						nment d	uring this pe	riod?	RANGO MENDENING	
Yes	– Indicate type			□No	- Skip to Part						
	Na	me of c	ompany		Address (/	lumber and	street, d	ity, State, ZIP	Code)	Date	e of change
• 🗆 5									- 1		
A. Purchased from							······································				
											·
B. Sold to			TD-4-						***************************************		
C.   Plant discontinued	d all operations		Date								
<b>D.</b> Plant operations n	o longer covere	d by thi	s survey –	Describe in	"Remarks" th	e products o	currently	produced.			
E. Reorganized - Des	scribe in "Remai	rks;" e.g.	, partners	hip change d	or change in c	orporate sta	atus.				-
PART III Do the fig		n this re	port and						?		
☐ Yes ▶ <b>PART IV</b> Remarks				∟No	– Indicate rea	sons for dif	ference i	n "Remarks."	AND AND THE STREET, ST	PARATES STREET STREET STREET	ANNA MARKATAN MARKAT
i Aili i Wittendand											
PART V CERTIFIC	<b>ATION –</b> This re	eport is s	substantia	lly accurate	and has been	prepared in	n accorda	nce with instru	uctions.	SANTON AND SERVICES	
Signature of authorized			Title						Date	***************************************	
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Complete and retur envelope provided	n this form in th or to:	e	1201 E	of the Cens ast Tenth S onville, IN 4	treet	NOTE:	Please r	nake a photoco	ppy of th	is for yo	our records.